

Converting Colors

$Y_{xy}(45.7128, 0.3008, 0.5993)$

Have a look what the booklet for
Yxy(45.7128, 0.3008, 0.5993)
contains.

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Color

Yxy(45.6590, 0.3008, 0.5994)

Conversions

Conversions Part 1

Format	Color
Hex	09D100
RGB	9, 209, 0
RGB Percent	4%, 82%, 0%
CMY	0.9644, 0.1804, 1.0000
CMYK	0.96, 0.00, 1.00, 0.18
HSL	117°, 100%, 41%
HSV	117°, 100%, 82%
XYZ	22.9133, 45.6590, 7.6022
YIQ	125.3740, -52.1110, -107.3990

Conversions

Conversions Part 2

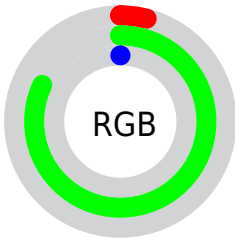
Format	Color
RYB	0, 209, 200
Decimal	643328
CIELab	73.32, -73.83, 71.65
CIELCh	73, 102.883, 135.858
Yxy	45.6590, 0.3008, 0.5994
Android (android.graphics.Color)	4278833408 (0xFF09D100)
YUV	125.3740, -61.8094, -102.0600
Hunter-Lab	67.5714, -57.7212, 40.6295

Details

The Yxy color **45.6590, 0.3008, 0.5994** is a dark color, and the websafe version is hex **00CC00**. The color can be described as dark washed green. A complement of this color would be **16.8736, 0.3100, 0.1481**, and the grayscale version is **20.8756, 0.3127, 0.3290**.

A 20% lighter version of the original color is **75.3173, 0.3127, 0.5418**, and **22.7825, 0.3000, 0.6000** is the 20% darker color. If you saturate the color by 10%, you get **45.6611, 0.3008, 0.5994**, and if you desaturate by 10%, it is **45.9185, 0.3017, 0.5910**.

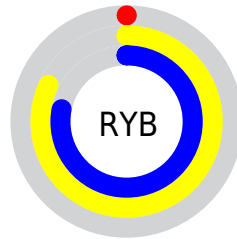
Distribution



Red (4%)

Green (82%)

Blue (0%)



Red (0%)

Yellow (82%)

Blue (78%)

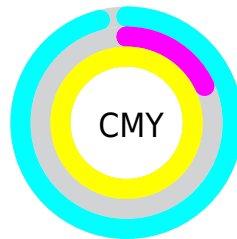


Cyan (96%)

Magenta (0%)

Yellow (100%)

Black (18%)



Cyan (96%)


Magenta (18%)

Yellow (100%)

Brightness & Saturation Gradients


These gradients show how the Yxy color 45.6590, 0.3008, 0.5994 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.


Similar to the brightness gradients but the following saturation gradients show a change of the Yxy color 45.6590, 0.3008, 0.5994 by changing the saturation by 10% instead.


 45.6590, 0.3008,
0.5994

 45.6590, 0.3008,
0.5994


369.4360, 0.3201,
0.4552

 31.9768, 0.2908,
0.6347


 83.7084, 0.3116,
0.5466


 21.3438, 0.2749,
0.6777


 108.8445, 0.3145,
0.5267


 13.3755, 0.2519,
0.7364


 138.5672, 0.3165,
0.5100

 7.6876, 0.2091,
0.7909

 173.2611, 0.3178,
0.4957

 3.8957, 0.1433,
0.8567

 213.3106, 0.3188,
0.4834

 1.6154, 0.0000,
1.0000

 259.0999, 0.3194,

 0.3680, 0.0000,

0.4727

1.0000

311.0136, 0.3198,
0.4634

■ 0.0000, 0.0000,
0.0000

■ 45.6590, 0.3008,
0.5994

■ 45.6590, 0.3008,
0.5994

■ 45.6611, 0.3008,
0.5994

■ 45.9185, 0.3017,
0.5910

■ 46.4227, 0.3032,
0.5749

■ 47.2252, 0.3049,
0.5506

■ 48.3624, 0.3065,
0.5200

■ 49.8658, 0.3081,
0.4856

■ 51.7630, 0.3094,
0.4501

■ 54.0791, 0.3106,
0.4156

■ 56.8370, 0.3115,
0.3835

■ 60.0579, 0.3122,
0.3546

Harmonies

Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



45.6590, 0.4190, 0.5535



45.6590, 0.3008, 0.5994



45.6590, 0.1909, 0.4940

Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



45.6590, 0.3008, 0.5994



45.6590, 0.1168, 0.1504



45.6590, 0.5421, 0.2871

Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.



45.6590, 0.3008, 0.5994



16.8736, 0.3100, 0.1481

Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



45.6590, 0.4115, 0.2169



45.6590, 0.3008, 0.5994



45.6590, 0.1677, 0.1429

Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



45.6590, 0.3008, 0.5994



45.6590, 0.1017, 0.1985



45.6590, 0.2666, 0.1657



45.6590, 0.5789, 0.3650

Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



45.6590, 0.3008, 0.5994



45.6590, 0.1391, 0.3699



45.6590, 0.2666, 0.1657



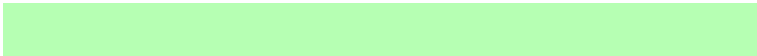
45.6590, 0.5061, 0.2626

Sweetspot

The Sweet Spot groups the original color and five complimentary colors.



45.6611, 0.3008, 0.5994



84.6777, 0.3105, 0.4168



54.1973, 0.4284, 0.4981



17.7774, 0.3101, 0.4313



0.0000, 0.0000, 0.0000



21.4041, 0.3127, 0.3290

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



45.6611, 0.3008, 0.5994



71.5916, 0.3006, 0.5995



46.4116, 0.2774, 0.5186



13.2304, 0.3122, 0.3530



28.1633, 0.3010, 0.5992



1.5835, 0.3044, 0.5965

Inverse Universe

The Inverse Universe completely reimagines the original color for something new.



16.8736, 0.3100, 0.1481



26.4410, 0.3099, 0.1481



14.7925, 0.4764, 0.2398



11.9818, 0.3131, 0.3060



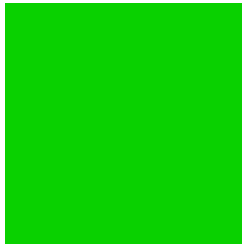
10.4149, 0.3102, 0.1482



0.5906, 0.3123, 0.1494

Previews

White Background



This preview shows how the Yxy color 45.6590, 0.3008, 0.5994 looks on a white background.

Color Contrast Check

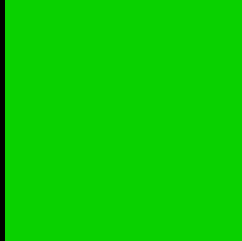
Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

Black Background



This preview shows how the Yxy color 45.6590, 0.3008, 0.5994 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

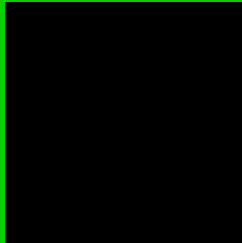
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

Yxy 45.6590, 0.3008, 0.5994

Background



This preview shows how black text looks on a background with the Yxy color 45.6590, 0.3008, 0.5994.



This preview shows how white text looks on a background with the Yxy color 45.6590, 0.3008, 0.5994.

Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

Dichromacy



Original Color

45.6590, 0.3008, 0.5994

Protanopia

44.6577, 0.4401, 0.4888

Deuteranopia

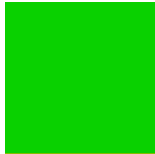
44.4127, 0.4610, 0.4510



Tritanopia

45.3114, 0.2359, 0.3059

Trichromacy



Original Color

45.6590, 0.3008, 0.5994



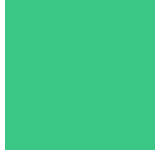
Protanomaly

41.6522, 0.3654, 0.5480



Deuteranomaly

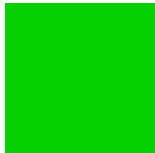
40.4807, 0.3788, 0.5248



Tritanomaly

43.4979, 0.2664, 0.4368

Monochromacy



Original Color

45.6590, 0.3008, 0.5994



Achromatopsia

20.5079, 0.3127, 0.3290



Achromatomaly

26.1951, 0.3082, 0.4775

CSS Examples

Text

The CSS property to change the color of the text to Yxy 45.6590, 0.3008, 0.5994 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(9, 209, 0)` looks like.

```
.text, #text, p{  
    color:rgb(9, 209, 0)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(9, 209, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(9, 209, 0) }
```

Border

The CSS property to change the border of an element to Yxy 45.6590, 0.3008, 0.5994 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(9, 209, 0) }
```

If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(9, 209, 0) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(9, 209, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(9, 209, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(9, 209, 0); box-shadow:4px  
4px 4px 4px rgb(9, 209, 0) }
```


Background

The CSS property to change the background color of an element to Yxy 45.6590, 0.3008, 0.5994 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(9, 209, 0) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(9, 209,  
0) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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